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**TITLE:** Fibre and filament having an optical interference function useful as a material for arts and crafts - comprising independent polymer layers, having different refractive indices, laminated in parallel with the major axis of a flat cross section

**INVENTOR:** ASANO, M; KUMAZAWA, K ; KURODA, T ; OWAKI, S ; SAKIHARA, A ; SHIMIZU, S ; TABATA, H

**PATENT-ASSIGNEE:**

ASSIGNEE	CODE
TEIJIN LTD	TEIJ
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**PRIORITY-DATA:** 1997JP-0284869 (October 17, 1997), 1997JP-0093382 (April 11, 1997), 1997JP-0093393 (April 11, 1997), 1997JP-0093403 (April 11, 1997), 1997JP-0093469 (April 11, 1997)

**PATENT-FAMILY:**

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
US <u>6430348</u> B1	August 6, 2002		000	G02B006/10
WO 9846815 A1	October 22, 1998	J	109	D01F008/14
JP 11001826 A	January 6, 1999		009	D01F008/14
JP 11001827 A	January 6, 1999		008	D01F008/14
JP 11001828 A	January 6, 1999		011	D01F008/14
JP 11001829 A	January 6, 1999		008	D01F008/14
EP 921217 A1	June 9, 1999	E	000	D01F008/14
CN 1226940 A	August 25, 1999		000	D01F008/14
JP 10543724 X	March 28, 2000		000	D01F008/14
KR 2000016534 A	March 25, 2000		000	D01F008/14

**DESIGNATED-STATES:** CN JP KR US AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE DE FR GB IT

**APPLICATION-DATA:**

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
US 6430348B1	April 10, 1998	1998WO-JP01667	
US 6430348B1	December 11, 1998	1998US-0202279	
US 6430348B1		WO 9846815	Based on
WO 9846815A1	April 10, 1998	1998WO-JP01667	
JP 11001826A	May 12, 1997	1997JP-0121195	
JP 11001827A	May 12, 1997	1997JP-0121194	
JP 11001828A	May 12, 1997	1997JP-0121196	
JP 11001829A	May 12, 1997	1997JP-0121197	
EP 921217A1	April 10, 1998	1998EP-0912764	
EP 921217A1	April 10, 1998	1998WO-JP01667	
EP 921217A1		WO 9846815	Based on
CN 1226940A	April 10, 1998	1998CN-0800646	
JP 10543724X	April 10, 1998	1998JP-0543724	
JP 10543724X	April 10, 1998	1998WO-JP01667	
JP 10543724X		WO 9846815	Based on
KR2000016534A	April 10, 1998	1998WO-JP01667	
KR2000016534A	December 10, 1998	1998KR-0710122	
KR2000016534A		WO 9846815	Based on

INT-CL (IPC): B32 B 5/26; D01 F 6/64; D01 F 8/04; D01 F 8/10; D01 F 8/14; D02 G 1/18;  
D02 G 3/02; D03 D 15/00; D04 H 3/00; D06 M 15/00; D06 Q 1/00; G02 B 5/28; G02 B 6/10

ABSTRACTED-PUB-NO: US 6430348B

#### BASIC-ABSTRACT:

A flat fibre having an optical interference function comprises independent polymer layers, having different refractive indices, laminated parallel to the major axis of a flat cross section. The fibre is characterised in that the ratio (SP ratio) of the solubility parameter value (SP1) of the high refractive index polymer to the solubility parameter value (SP2) of the low refractive index polymer is within the following ranges: 0.8 at most SP1/SP2 at most 1.2.

A multi-filament yarn comprises a filament having an optical interference function, having a flat ratio of 4.0 15.0 and an extension degree of 10 50 %.

An embossed woven cloth and a cloth for embroidery comprises the multi-filament yarns.

USE - The fibre and the multi-filament yarn are used as a material for arts and crafts such as wrapping paper, ribbons, tapes, curtains, emblems, artificial flowers, embroidery, artificial hair, wall paper, etc.

ADVANTAGE - The fibre has excellent lustre, strong colouring effects, etc.  
 ABSTRACTED-PUB-NO:

WO 9846815A

#### EQUIVALENT-ABSTRACTS:

A flat fibre having an optical interference function comprises independent polymer layers, having different refractive indices, laminated parallel to the major axis of a flat cross section. The fibre is characterised in that the ratio (SP ratio) of the solubility parameter value (SP1) of the high refractive index polymer to the solubility parameter value (SP2) of the low refractive index polymer is within the following ranges: 0.8 at most SP1/SP2 at most 1.2.

A multi-filament yarn comprises a filament having an optical interference function, having a flat ratio of 4.0 15.0 and an extension degree of 10 50 %.

An embossed woven cloth and a cloth for embroidery comprises the multi-filament yarns.

USE - The fibre and the multi-filament yarn are used as a material for arts and crafts